

Figure 1A

Identification of miRNAs and their targets
when their interactions are very stable

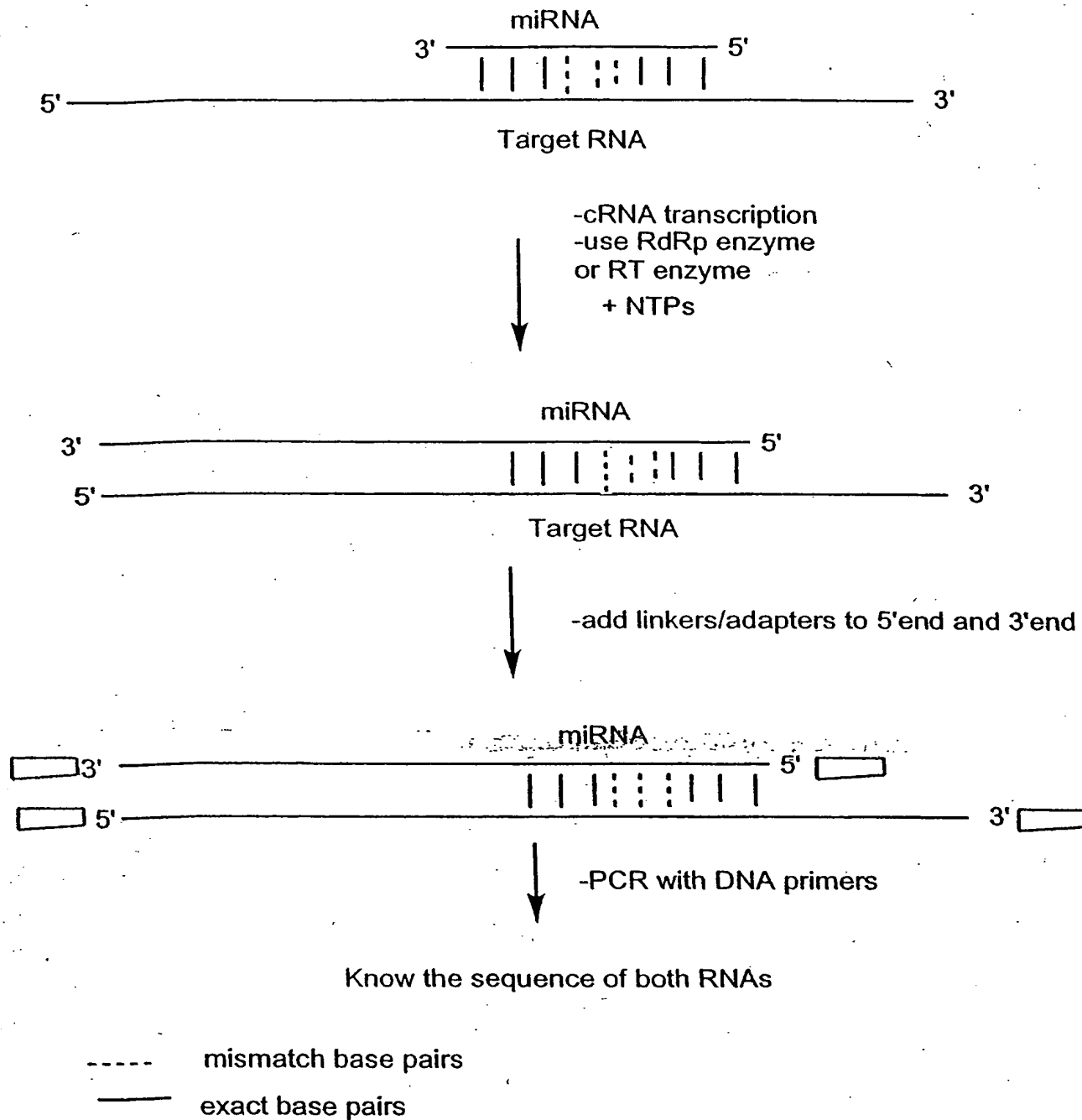


Figure 1B

**Identification of miRNA targets, when
the sequence of the miRNA is known, and the interaction is stable**

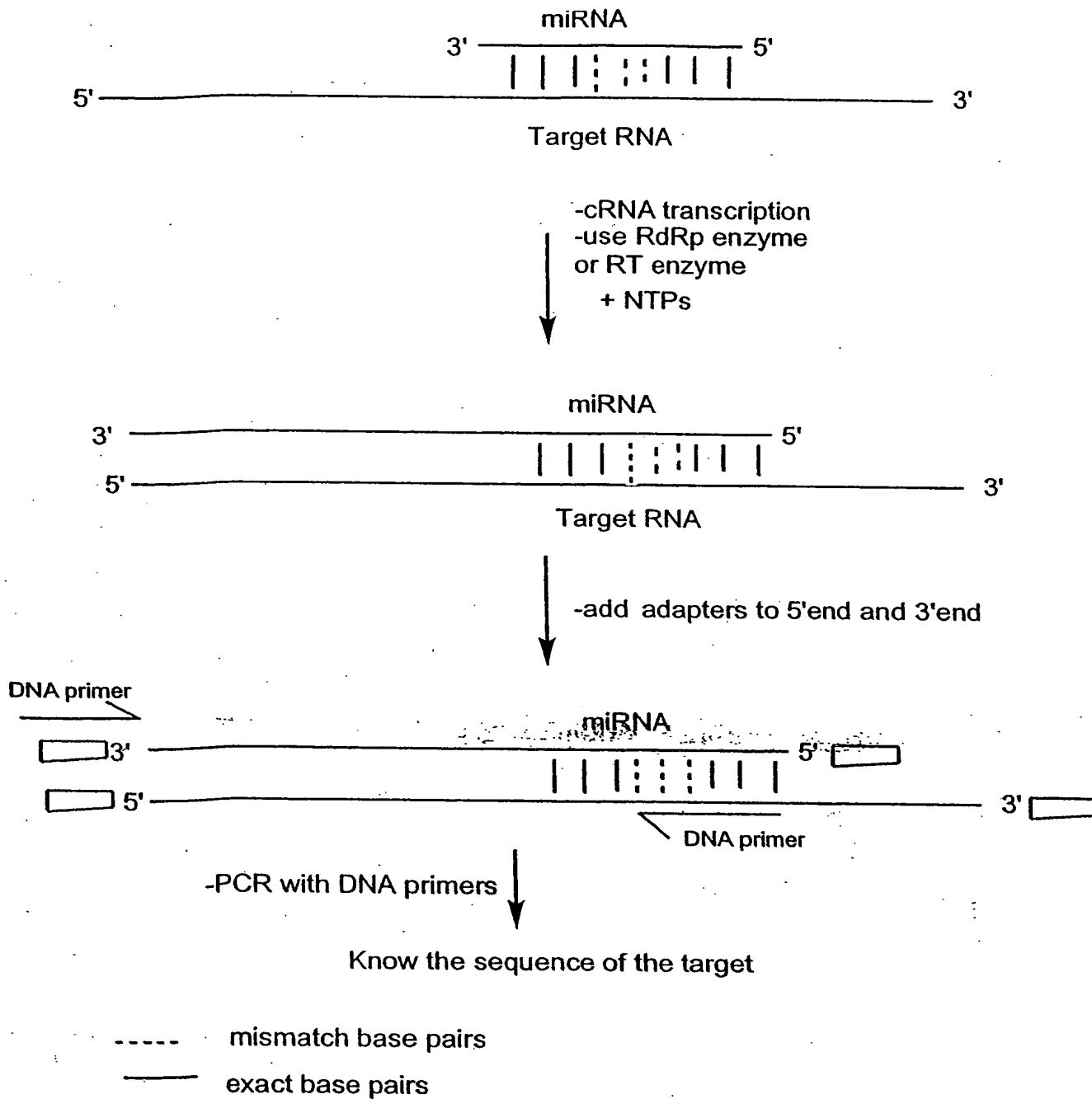


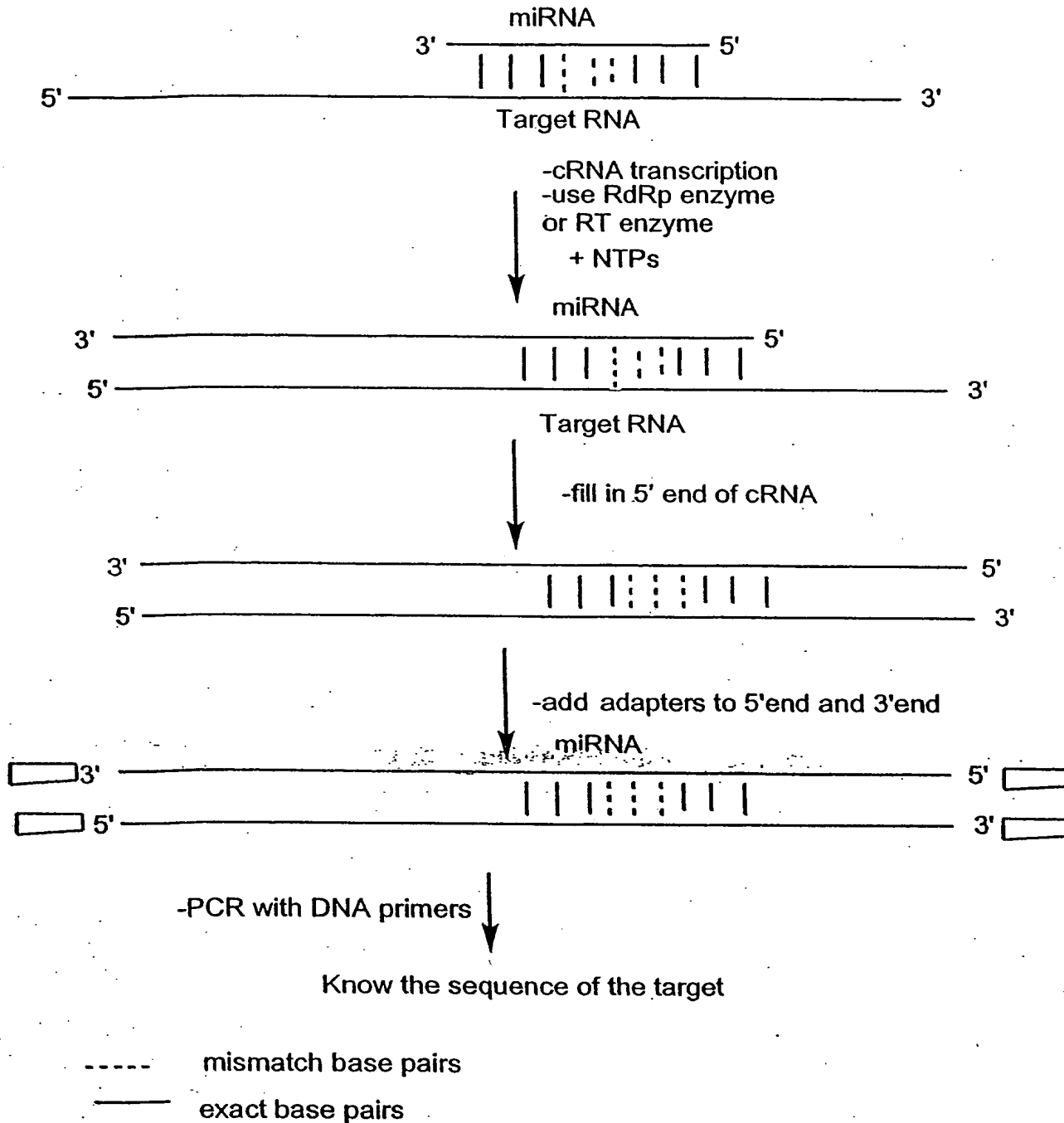
Figure 1C**Identification of miRNAs and targets
when the interaction is stable**

Figure 2A

Identification of miRNAs and their targets
when their interactions are dynamic

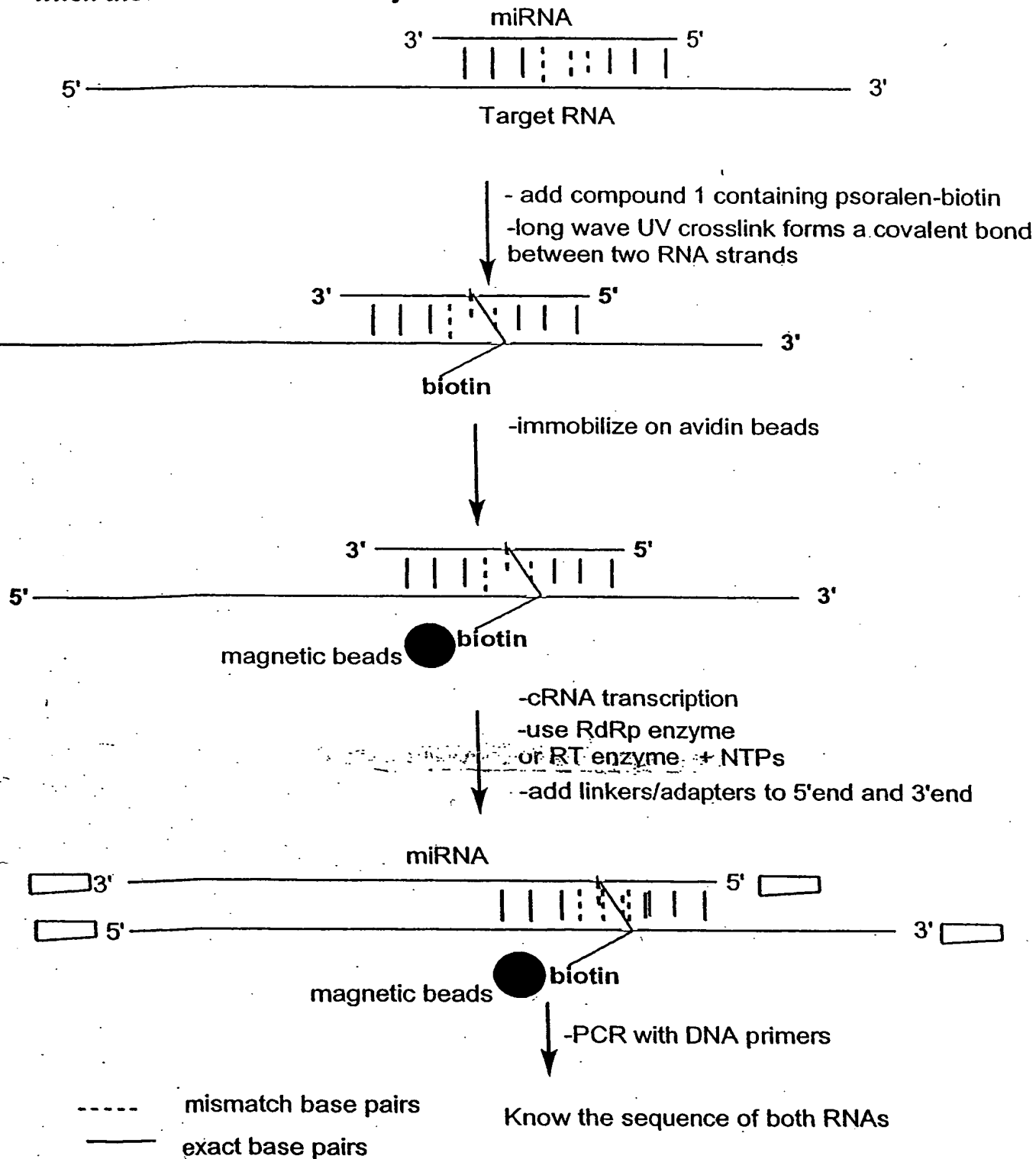


Figure 2B

**Identification of miRNA targets, when
the sequence of the miRNA is known, and the interaction is dynamic**

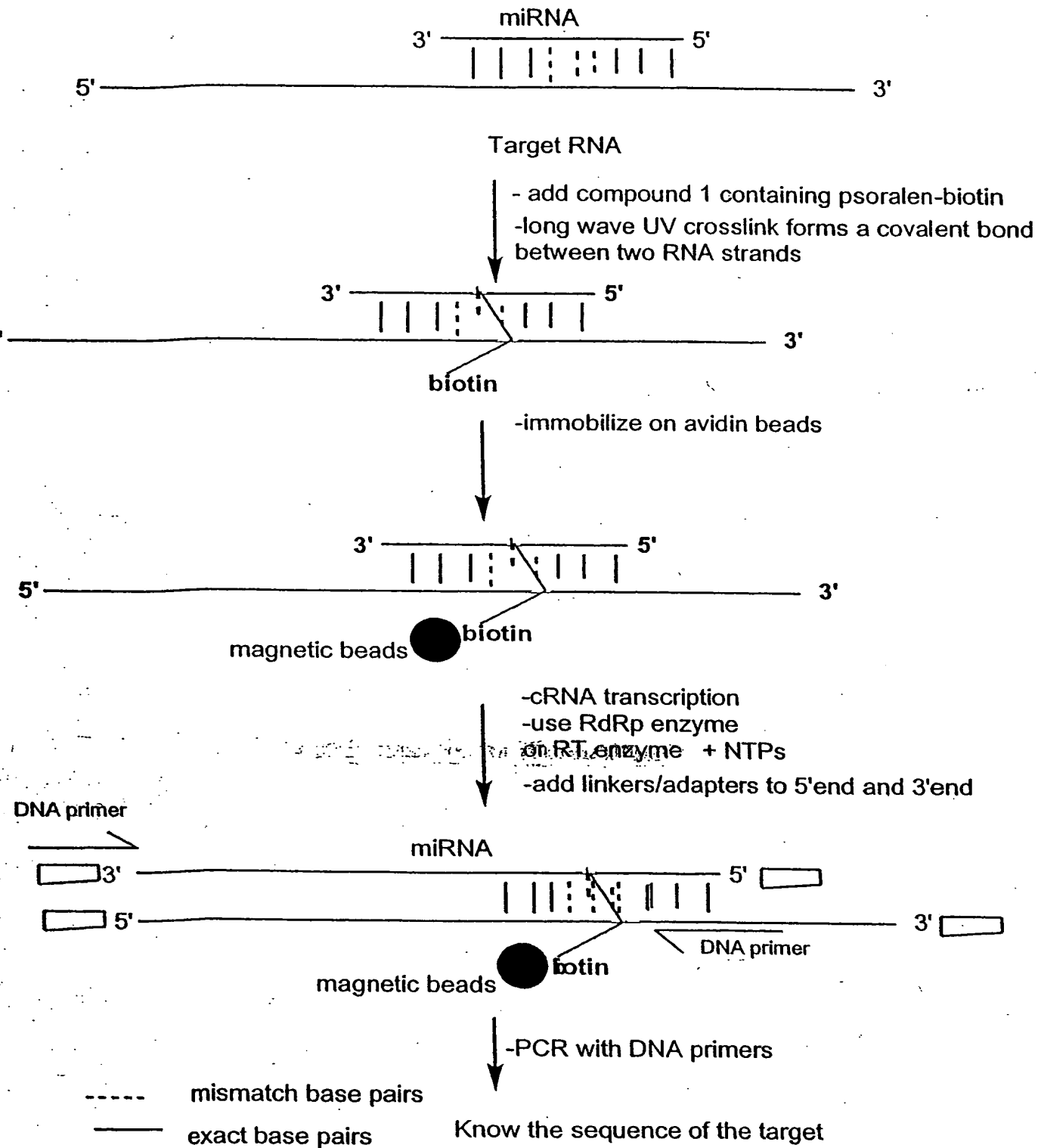


Figure 3
Identification of miRNAs targets when the miRNA sequence is known and their interactions are stable

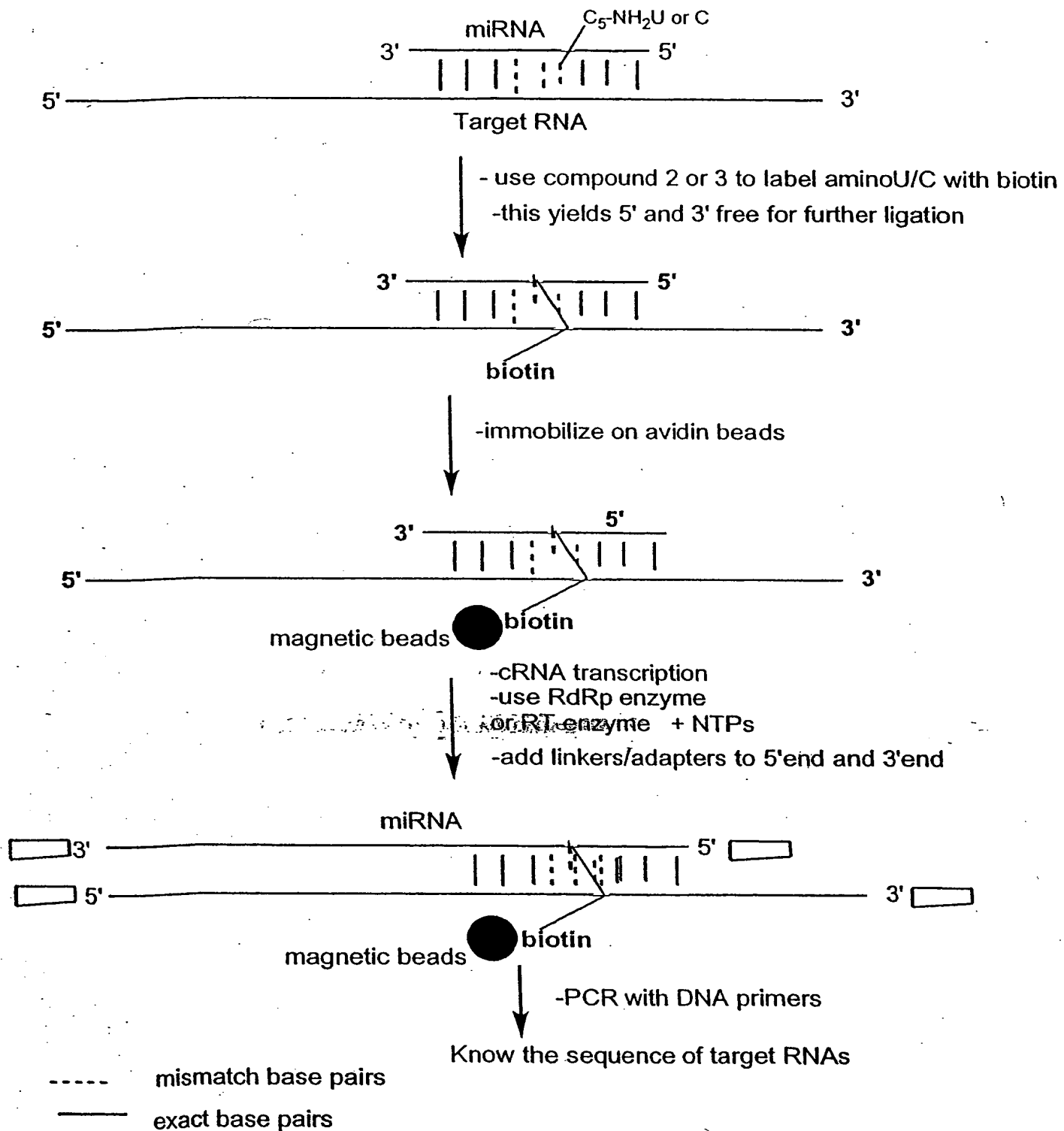
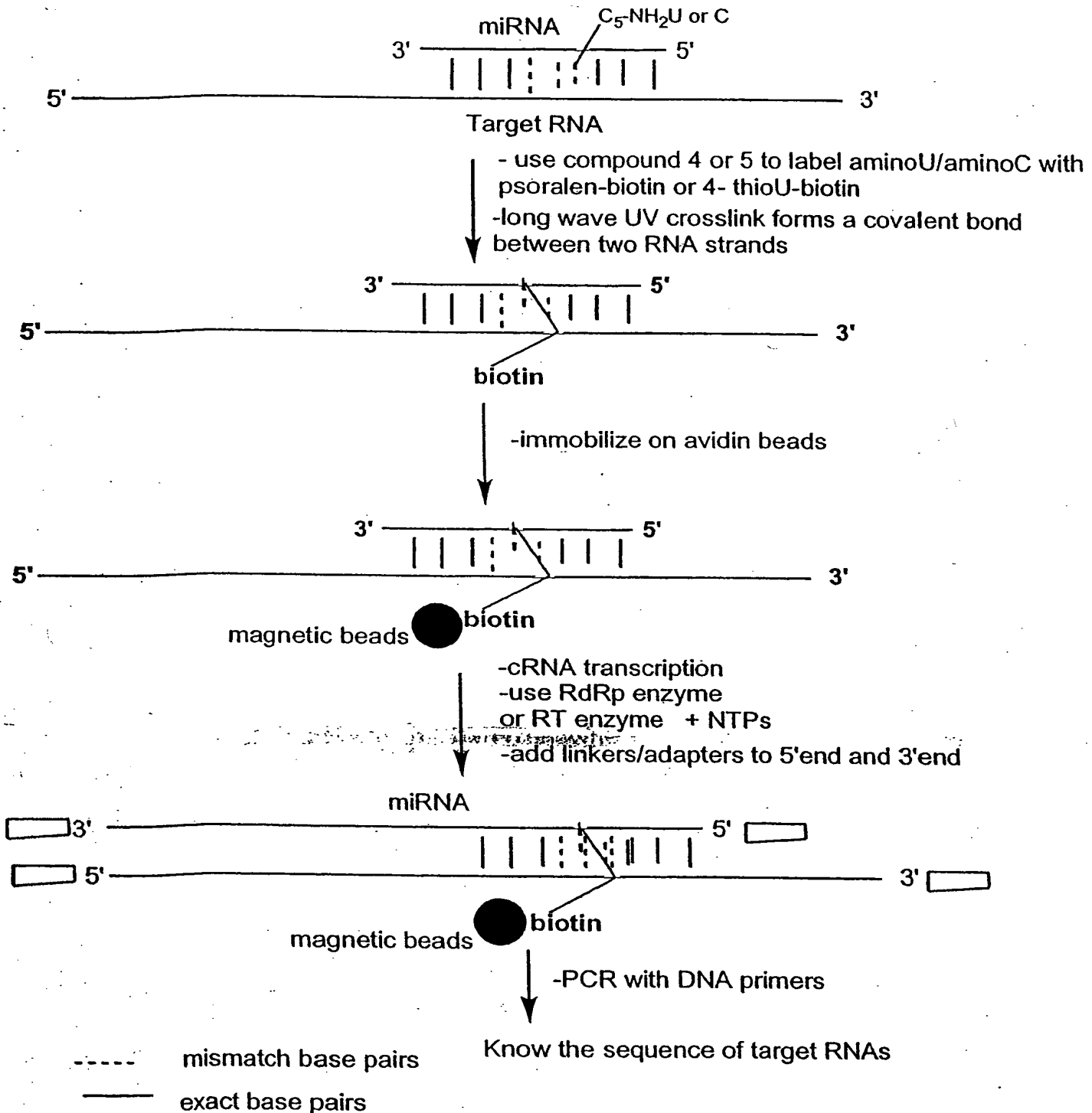
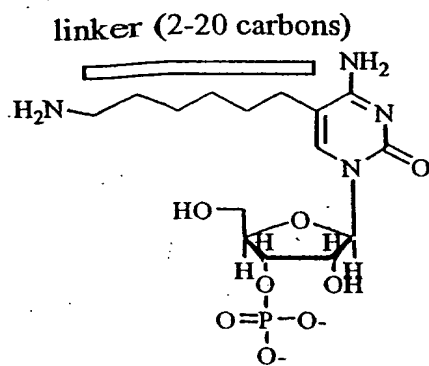


Figure 4

Identification of miRNAs targets when the miRNA sequence is known and their interactions are dynamic

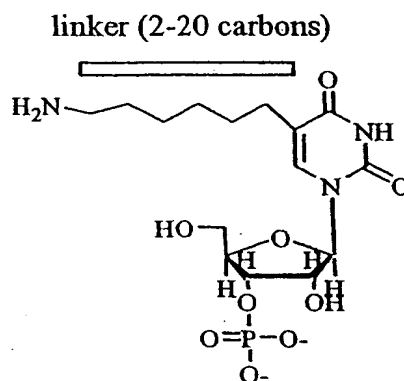




AminoC

Aminohexyl-C5-Cytosine

Figure 5A

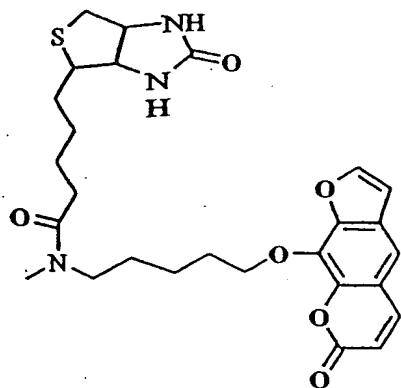


AminoU

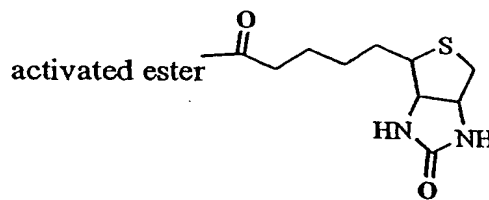
Aminohexyl-C5-uridine

Figure 5B

for immobilization



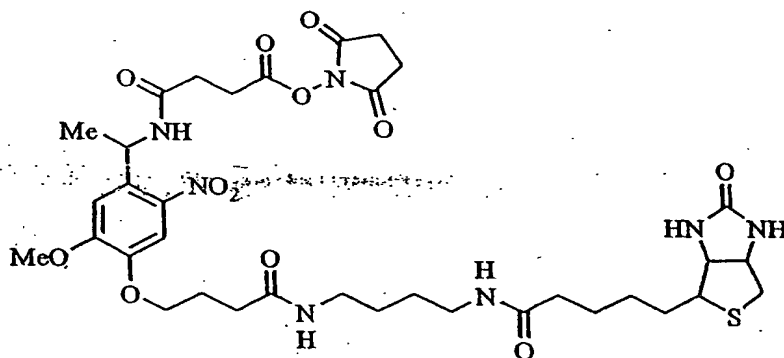
for photocrosslinking

Compound 1Bifunctional biotin-aminopentyl
8-hydroxypsoralen**Figure 6A**

for immobilization

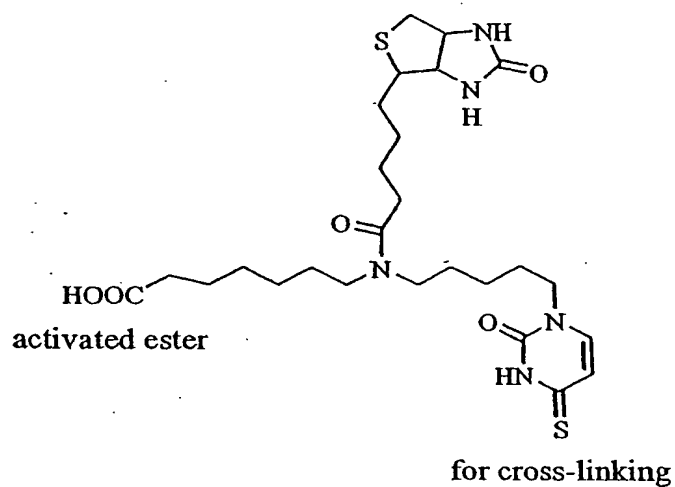
Compound 2

NHS activated ester of biotin butanoic acid

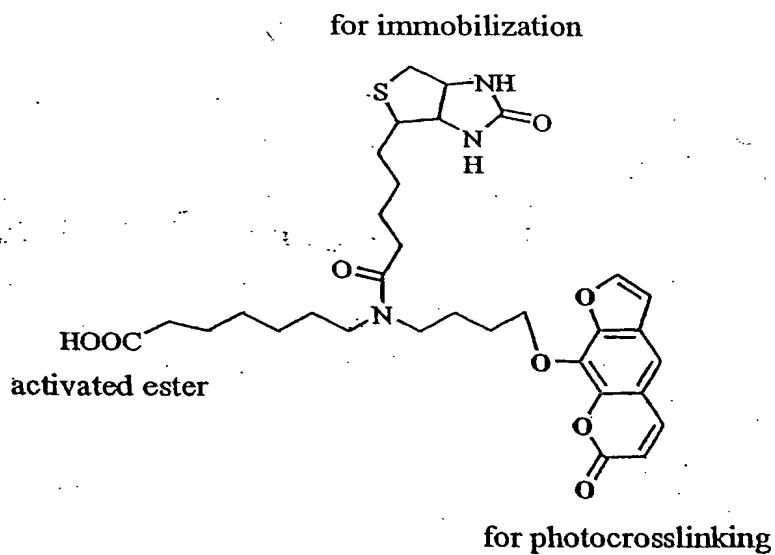
Figure 6B**Compound 3**

photocleavable biotin

Figure 6C

**Compound 4**

an activated ester of hexanoic acid linked with a biotin and a 4-thio-uracil

Figure 7A**Compound 5**

an activated ester of hexanoic acid linked with a biotin and an 8-hydroxy-psoralen

Figure 7B

Figure 8A

Identification of miRNAs when their interactions are stable

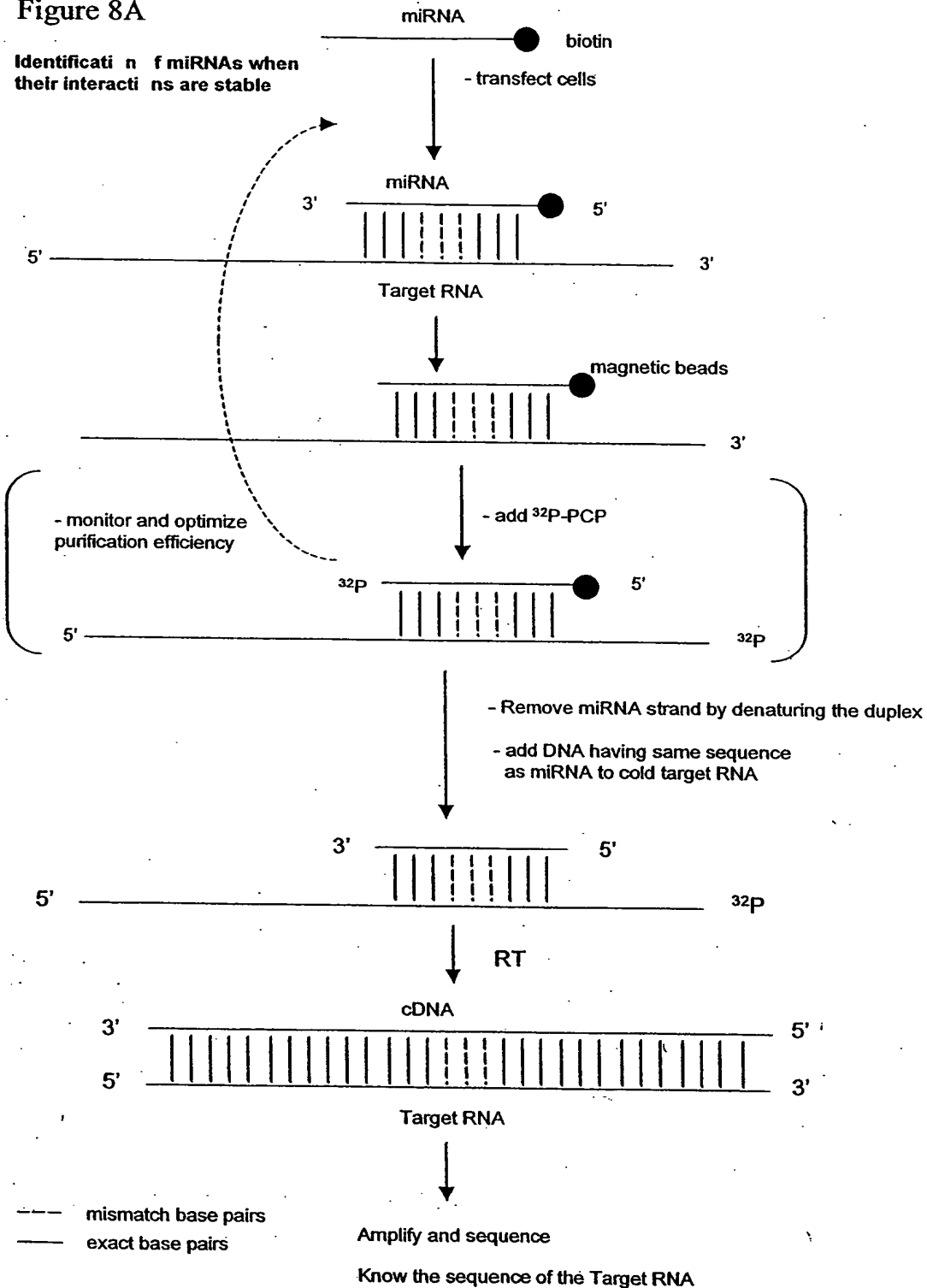


Figure 8B

Identification of miRNAs when
 their interactions are dynamic

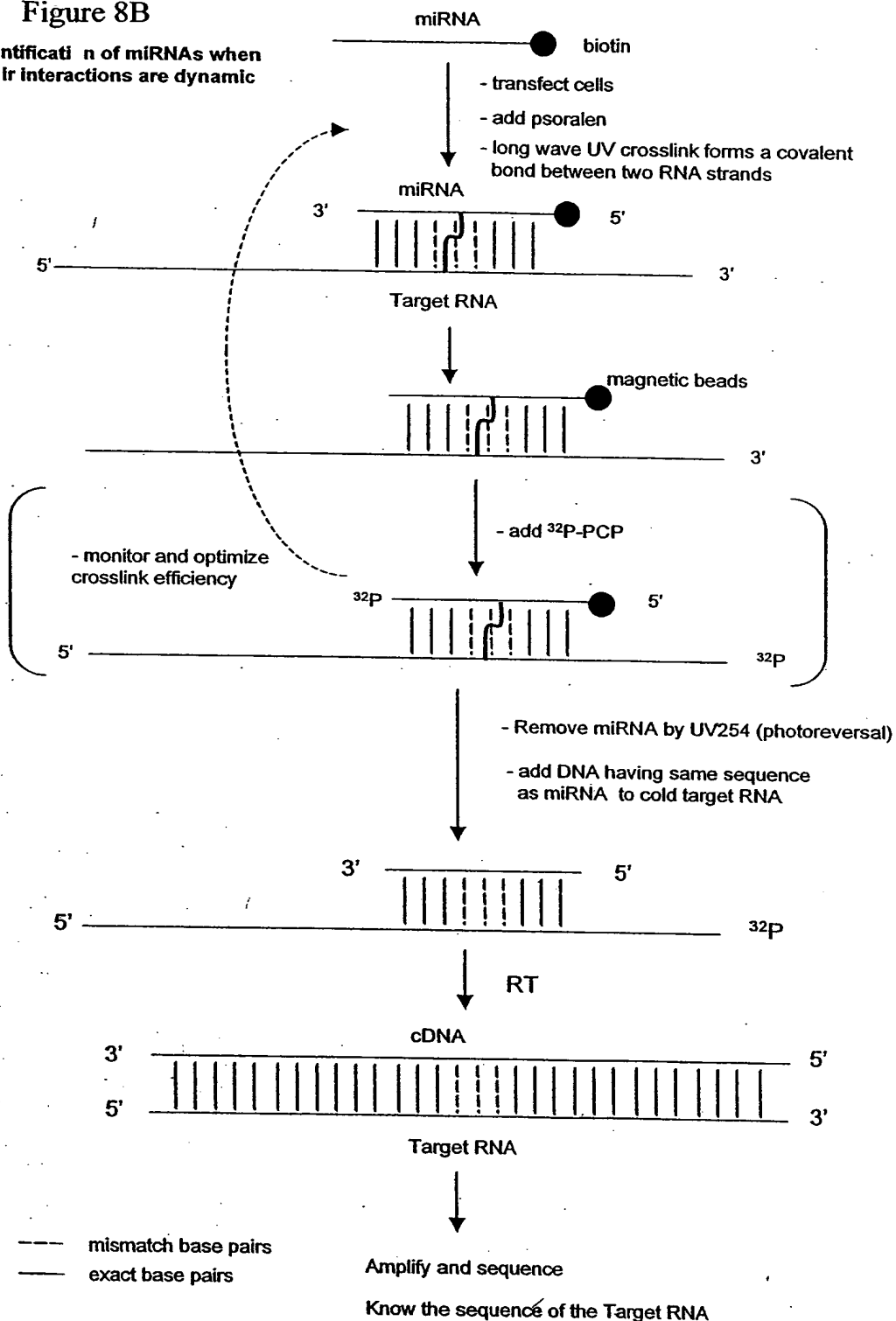


Figure 8C

**Identification of miRNAs when
 their interactions are dynamic**

**X = aminoU/aminoC labeled with
 psoralen or other crosslinkers**

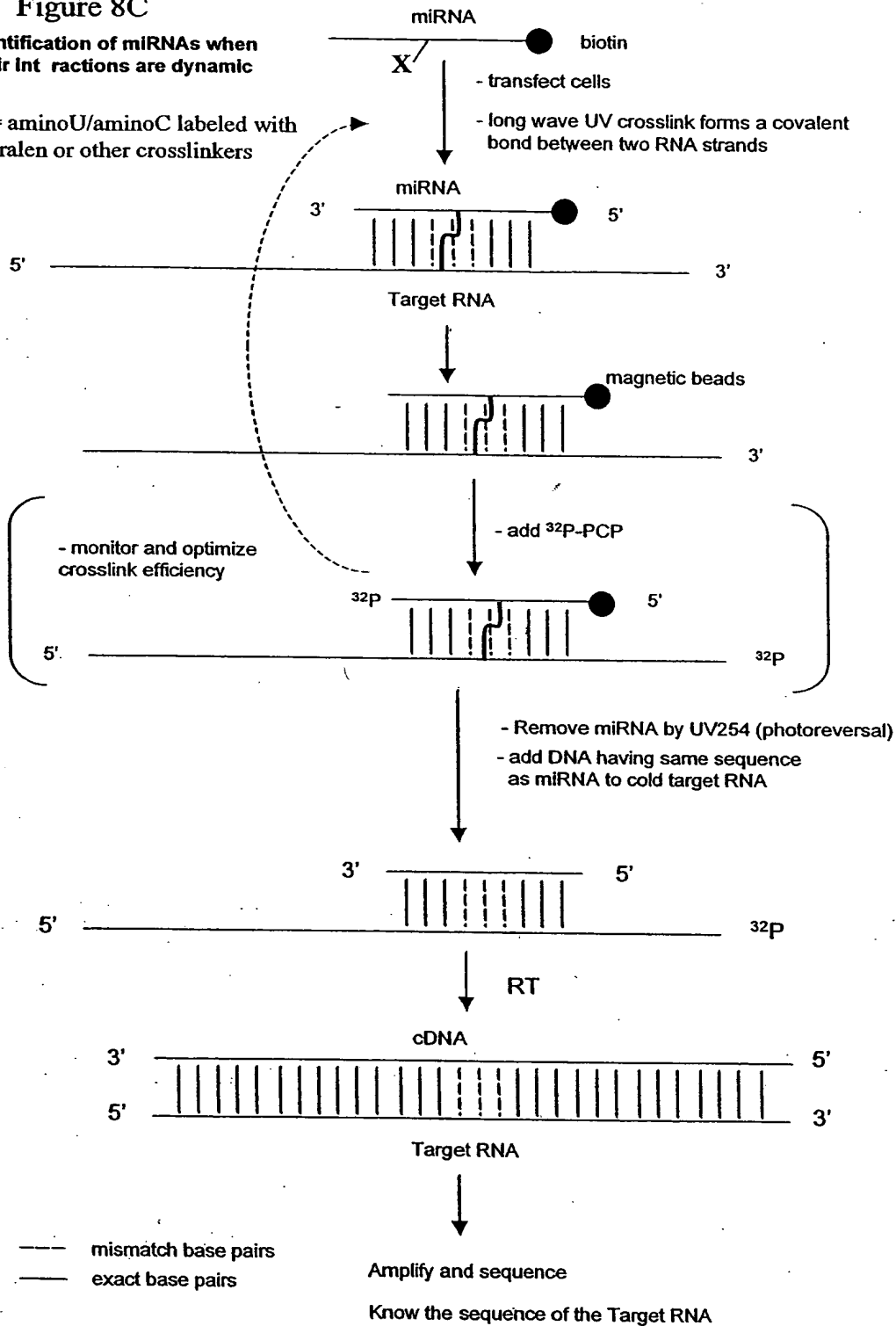


Figure 8D

Identification of miRNAs with
which interactions are dynamic

Y = 4-thioU/T or 6-thioG

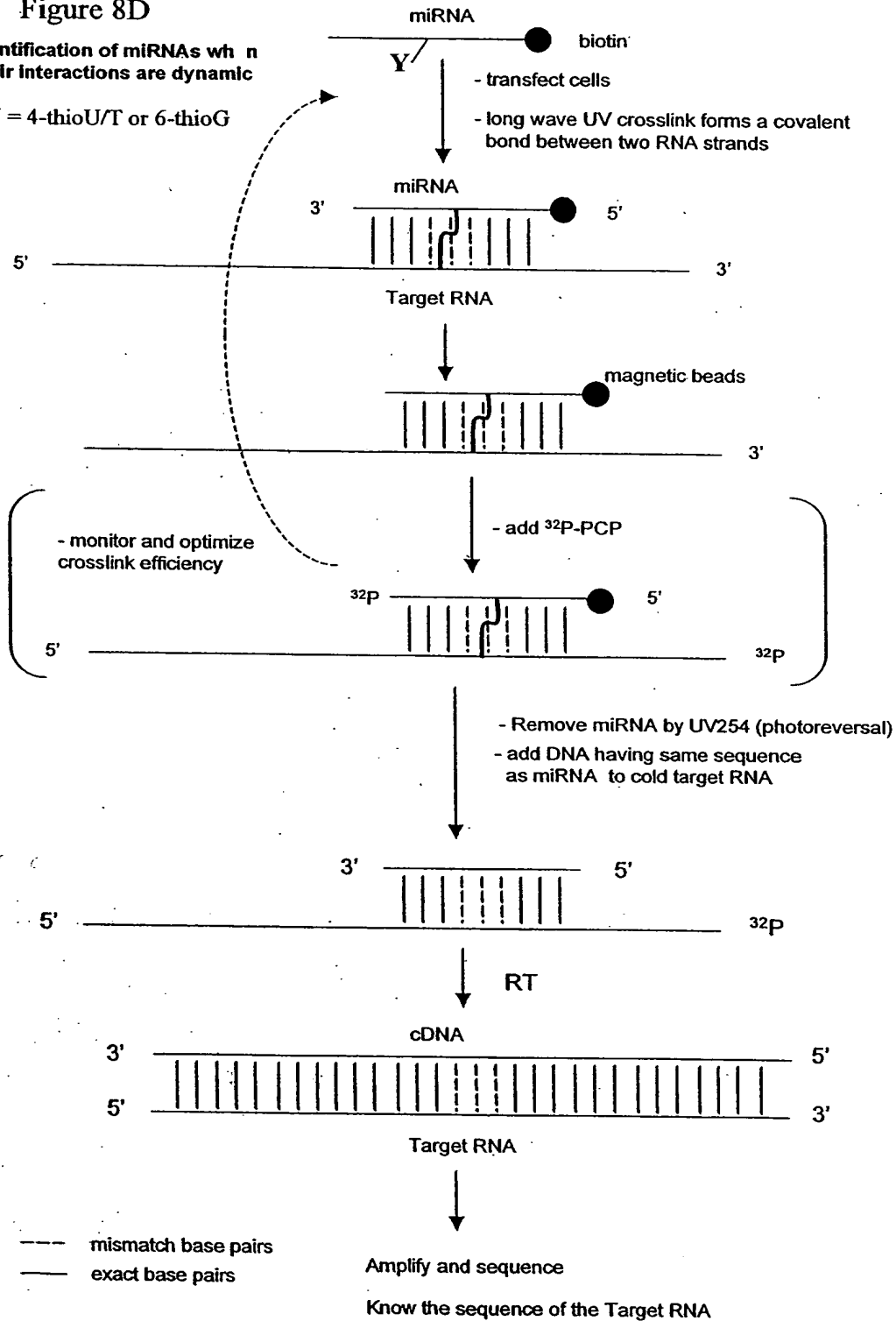


Figure 8E

**Identification of miRNAs when
their interactions are dynamic**

A = 3'-amino group that can be modified with
Psoralen or other crosslinkers. This will avoid any
Structural perturbations by inner modifications
Outlined in Fig 8B-D.

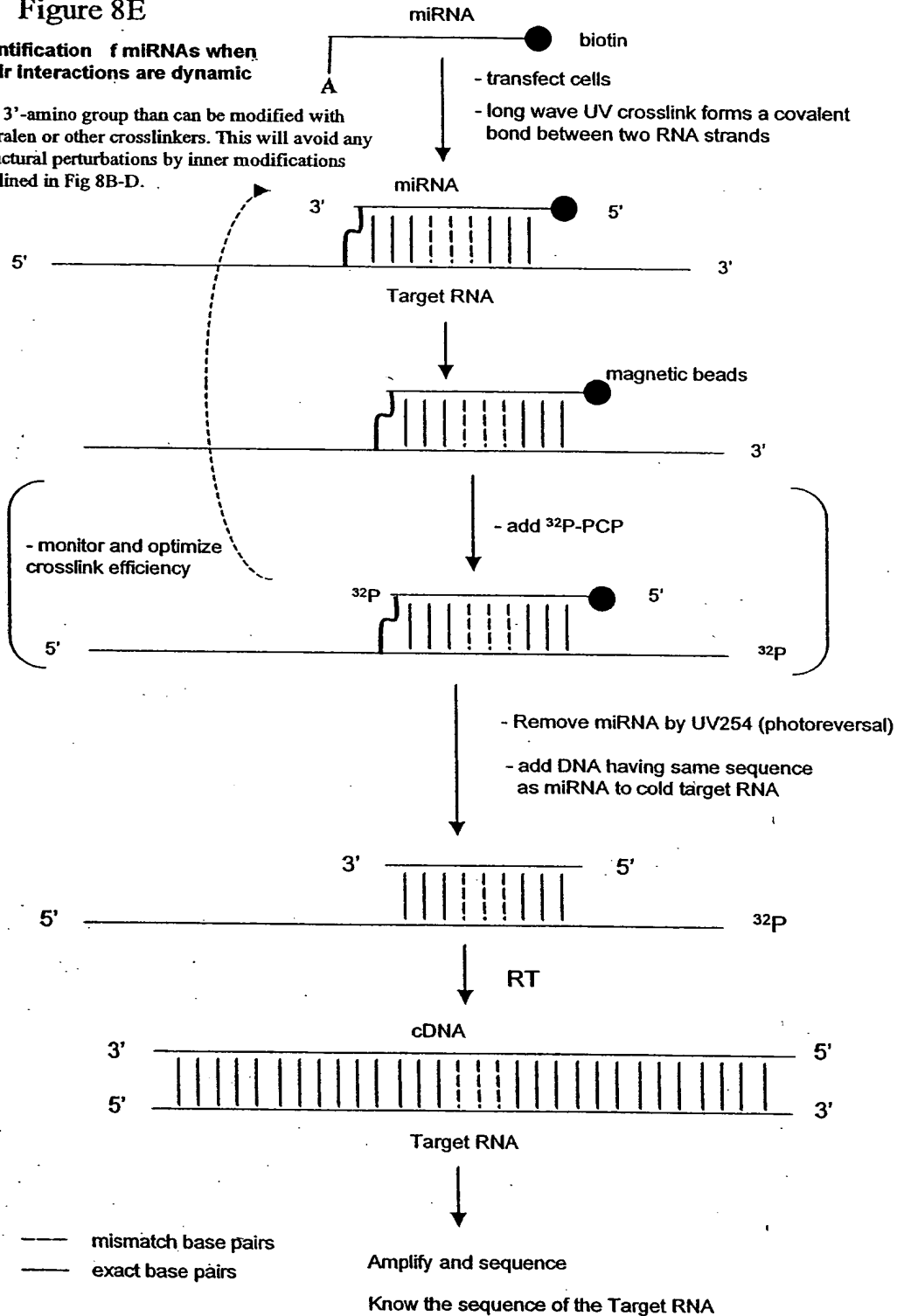


Figure 8F**Identification of miRNAs when their interactions are dynamic**

A = 5'-amino group that can be modified with Psoralen or other crosslinkers. This will give an alternative route to avoid any problems by 3'-end biotin (if there are any). Also, 5'-crosslinkers may stabilize the interactions.

